

# Notice of Allowability

Application No.

10/812,838

Examiner

Irina S. Zemel

Applicant(s)

KULKARNI ET AL.

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## -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 5-6-2005.
2. ☒ The allowed claim(s) is/are 1-9 and 11-14.
3. ☐ The drawings filed on \_\_\_\_\_ are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☐ All    b) ☐ Some\*    c) ☐ None    of the:
    1. ☐ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
  6. ☐ CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
    - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
      - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
    - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

### Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☒ Information Disclosure Statements (PTO-1449 or PTO/SB/08),  
Paper No./Mail Date 11-18-04
4. ☐ Examiner's Comment Regarding Requirement for Deposit  
of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413),  
Paper No./Mail Date \_\_\_\_\_.
7. ☒ Examiner's Amendment/Comment
8. ☐ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_.

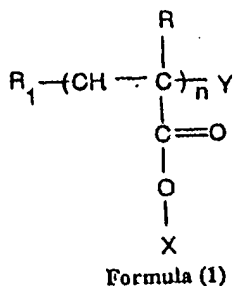
**DETAILED ACTION****EXAMINER'S AMENDMENT**

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.

In claim 4, on the second line, substitute "NAG" with -- *N-Acetyl Glucosamine*--.

Substitute Claims 2, 3, 6, 13 and 14 with the following amended claims 2; 3, 6, 13 and 14

Claim 2 (currently amended) A process for the preparation of the functional polyvalent oligomer of Formula (1)



wherein R is H, CH<sub>3</sub>, or C<sub>2</sub>H<sub>5</sub>, R<sub>1</sub> is H, NH<sub>2</sub>, OH, or COOH, X is *N-Acetyl Glucosamine*, Y is H, COOH, OH or NH<sub>2</sub>, and n is from 3 to 50; which comprises dissolving a

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polymerizable monomer in a solvent and adding a chain transfer agent ~~to obtain a solution with molecules of different molecular weights~~, adding an initiator and accelerator to the solution, allowing a reaction for a period of 24 hrs to 48 hrs to form a reaction mixture, bringing the temperature of the reaction mixture to 50 to 60° C, precipitating a product from the reaction mixture using a non solvent, vacuum drying the product for a time sufficient to obtain said functional polyvalent oligomer.

Claim 3 (currently amended) A process as claimed in claim 2, wherein the monomer is NAG, ~~Acryloyl NAG or Methacryloyl NAG~~ Acryloyl N-Acetyl Glucosamine or Methacryloyl N-Acetyl Glucosamine.

Claim 6 (currently amended) A process as claimed in claim 2, wherein the solvent used to dissolve the polymerizable monomer is selected from the group consisting of water, methanol, ethanol, dimethyl formamide, tetra hydro furen ~~or furan~~ and dimethyl sulfoide sulfoxide.

Claim 13 (currently amended) A process as claimed in claim 2, wherein the molar ratio of said chain transfer agent to said polymerizable monomer for the synthesis of the functional polyvalent oligomer is in the range of from 0.5:25 to 1:0.5.

Claim 14 (new) A process as claimed in claim 2, wherein the molar ratio of said chain

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transfer agent to said polymerizable monomer for the synthesis of the functional polyvalent oligomer is in the range of from 1 to 25 to 1:20.


Authorization for this examiner's amendment was given in a telephone interview with Mr. Mass on July 18, 2005.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Irina S. Zemel whose telephone number is (571)272-0577. The examiner can normally be reached on Monday-Friday 9-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, James Seidleck can be reached on (571)272-1078. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

ISZ



James J. Seidleck  
Supervisory Patent Examiner  
Technology Center 1700